

STEREO MOC Status Report
Time Period: 2011:234 - 2011:240

STEREO Ahead (STA) Status:

1. The following Ground System anomalies occurred during this reporting period:
 - On day 234, during the DSS 63 support, turbo decoder lock was lost briefly beginning at 1101z. This resulted in the loss of eight frames of SSR data. See DR# N107549 for more information.
 - On day 235, during the DSS 55 support, telemetry lock was lost at 1441z due to subreflector drive anomaly. The subreflector drive was reset and telemetry lock was re-established at 1449z. This resulted in the loss of several minutes of SSR data. See DR# M106445 for more information.
 - On day 236, the MOC was notified that the DSS 14 antenna was red due to an azimuth pointing anomaly. The Ahead support was switched to use DSS 15 with a duration of 2.8 hours. The Ahead S/C was re-configured to downlink at the lower 160 kbps data rate as the supports were switched from a 70 meter to a 34 meter station. As there was insufficient track time, the planned momentum dump was postponed and re-planned to occur the next day with ignition at 237-1230z. To minimize science data loss, the day 238 70m support with DSS 63 was switched to downlink at the higher 720 kbps as its elevation was above 25 degrees for the duration of the support. As a result of insufficient track time, the IMPACT and SWAVES science partitions and the SECCHI synoptic science partition lost 10 to 14 hours of science data each on days 237 and 238 as follows. See DR# G111907 for more information.

IMPACT partition 15 was > 95%:
237-061254z/100913z (3:56:19)
237-185053z/205513z (2:04:20)
238-045133z/084753z (3:56:20)
Total = 9:56:59

SECCHI partition 19 was at 100%:
237-001314z/100913z (9:55:59)
237-101813z/101913z (0:01:00)
237-183613z/205513z (2:19:00)
238-063633z/084753z (2:11:20)

Total = 14:27:19

SWAVES partition 13 was at 100%:

237-043954z/100913z (5:29:19)

237-101713z/101913z (0:02:00)

237-191633z/205513z (1:39:00)

237-210213z/210513z (0:03:00)

238-050833z/084753z (3:39:20)

Total = 10:52:39

- On day 240, during the DSS 15 support, turbo decoder lock was lost briefly beginning at 2250z. This resulted in the loss of one frame of SSR data. A DR has been requested.

2. The following spacecraft/instrument events occurred during this week:

- On day 237, the 40th momentum dump was successfully executed at 1230Z, which imparted a delta V of 0.0866 m/sec.
- The average daily SSR playback volume for Ahead was 4.1 Gbits during this week.

STEREO Behind (STB) Status:

1. The following Ground System anomalies occurred during this reporting period:

- On day 235, during the DSS 34 support, turbo decoder lock was lost briefly beginning at 0659z and again at 0733z. This resulted in the loss of two frames of SSR data. See DR# N107551 for more information.
- On day 235, during the DSS 65 support, turbo decoder lock was lost briefly beginning at 1819z and again at 1847z. This resulted in the loss of nine frames of SSR data. See DR# N107552 for more information.
- On day 237, during the DSS 24 support, turbo decoder lock was lost briefly beginning at 0215z. This resulted in the loss of 15 frames of SSR data. A DR has been requested.
- On day 239, during the DSS 26 support, initial telemetry acquisition was delayed five minutes due to station

reconfiguration arising from electrical power restoration activities. Telemetry lock was established at 0100z. Later in the support, real-time telemetry was lost at 0208z due to a DCD anomaly. Currently several hours of data are missing from day 238 for which the DSN is investigating. See DR# G111913 and G111914 for more information.

- On day 240, during the DSS 65 support, turbo decoder lock was lost briefly beginning at 1245z and again at 1744z. This resulted in the loss of 77 frames of SSR data. A DR has been requested.

2. The following spacecraft/instrument events occurred during this week:

- On day 236, the 34th momentum dump was successfully executed at 1800Z, which imparted a delta V of 0.0644 m/sec.
- The average daily SSR playback volume for Behind was 4.5 Gbits during this week.